Firmato digitalmente da:
Roberto Cereda
Data: 01/08/2025 12:51:11
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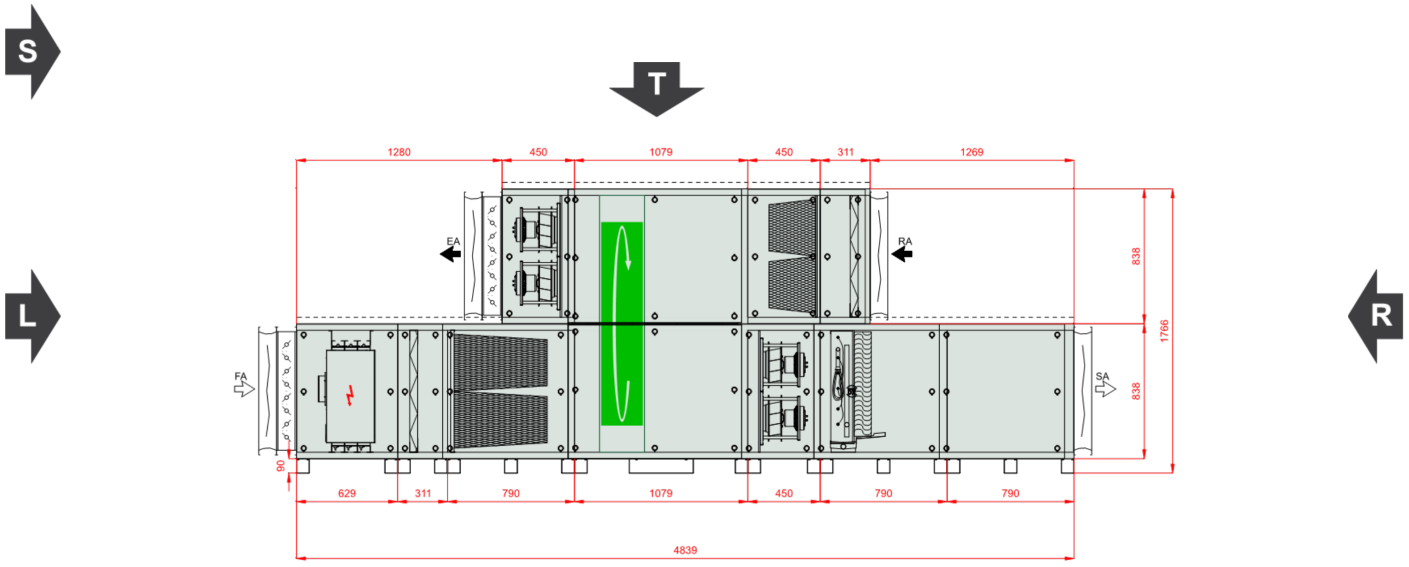
Technical data for item 2

Offer number 2/LIVE.EUR/PG/2025

Project name DATA CENTER
MIL05B /1LG.0003.0005.000
3/

Type	RecoveryRotaryVerticalCompact
Application	Outdoor
Project Tag	UTA ADMIN
Size	E-AVGV075C
Set	E-AVGV075C-R-HFFRVCE/E-AVGV075C-L-FFRV
Insulation thickness	40 mm
Insulation	Insulation_Value_MW40
Weight of the set (+/- 10%)*	1210 Kg
Supply airflow 2	5552.00 m³/h
External pressure	255 Pa
Exhaust airflow 2	4788.00 m³/h
External pressure	295 Pa
SFP Winter	1.59 kW/m³/s
SFP Summer	1.59 kW/m³/s
EEC Winter	A+ 2016
EEC Summer	A+ 2020
EECS Reference Region	Roma Leonardo Da Vinci

Inspection Panels



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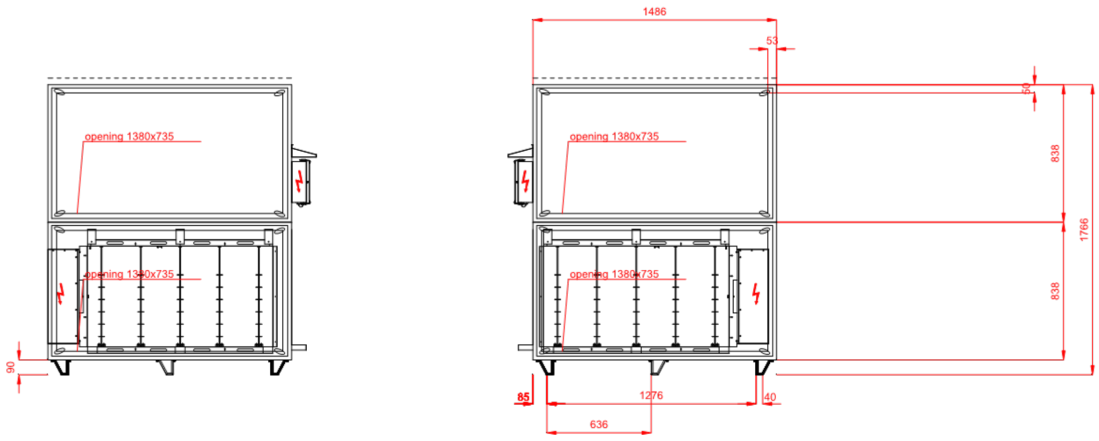
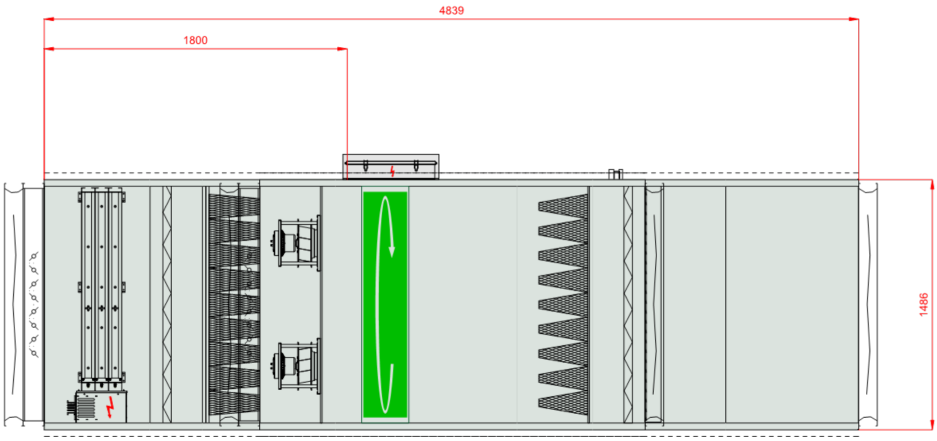
Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

Front View (left)



Top View



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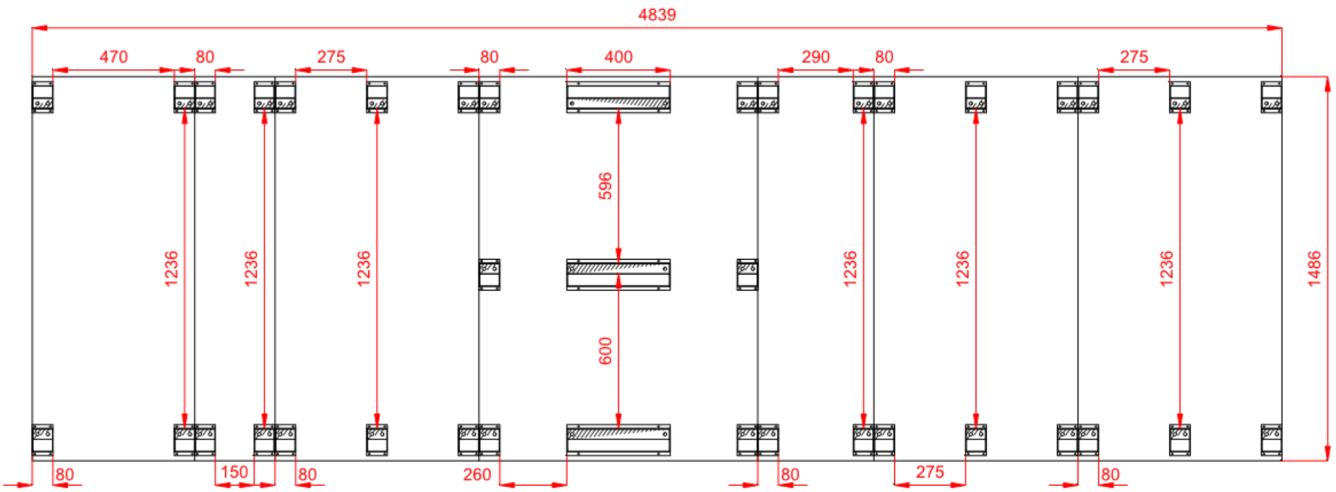
Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

Frame Top View, within the AHU outline contour



Sizes

Device casing dimensions	4839x1486x1766 mm
Internal Cross Section Area	1.0657 m²
Internal Cross Section Area (Integrated Section)	1.0657 m²

Unit design

Sandwich type casing made of 40mm thick mineral wool. Insulation covered with sheet metal on both sides. (Optional: electric heaters and silencers can be supplied as duct functions without insulation).

Unit Power Supply 400V/3ph/50Hz.

Casing anti-corrosion protection: Aluzinc AZ 150. Corrosion resistance (salt spary test): over 2400 hours

In case of a unit with heat recovery system with controls, the section of AHU with recovery system is fully wired, with pre-configured controller. In case of a unit without recovery system, a unit is to be field wired and the control system is delivered (if ordered) in packages for assembly and connection on site by installation contractor.

The device is equipped with EC motors.

Temperature Conditions

Reference atmospheric pressure 101325 Pa

	External air		
	DBT	X	DA
Summer	33.7 °C	13.456 g/kg	1.2000 kg/m³
Winter	-4.0 °C	1.976 g/kg	1.2000 kg/m³

Winter outdoor reference temperature -4.0 °C

	Return air		
	DBT	X	DA
Summer	20.0 °C	11.000 g/kg	1.2000 kg/m³
Winter	22.0 °C	6.000 g/kg	1.2000 kg/m³

Ref. Weather Station:: Roma Leonardo Da Vinci

	External air	
	DBT	X
Summer	31.8 °C	13.456 g/kg
Winter	0.9 °C	1.976 g/kg

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Technical data for item 2 **Offer number** 2/LIVE.EUR/PG/2025

Supply

Electric heater in casing

Type E-AVGV075C-6,00kW-400/3/50-RES **Version** N5_400_3_50_FullControls_RES_NO

Rated Electric Power	30.00 kW		
Intake air DBT / X	-4.0 °C / 1.976 g/kg	Discharge air DBT / X	5.2 °C / 1.976 g/kg
Air Velocity	1.45 m/s	Air Press. Drop Wet	8 Pa
Air Volume Flow	5552.00 m³/h		
Heating capacity	17.1 kW		

Panel Filter

Type M5/50.EU5MPleat.Int.Sld

ePM10 40% - ISO 16890 - EFF CLASS E — Flat Mini-Pleat Filter[26.0]

Filter Energy Performance Class	E		
Winter operation		**Summer operation**	
Air Pressure Drop	91 Pa	Air Pressure Drop	91 Pa
Pressure Drop - Clean Filter	32 Pa	Pressure Drop - Clean Filter	32 Pa
Pressure Drop at 100% Dirty Filters	150 Pa	Pressure Drop at 100% Dirty Filters	150 Pa
Air Velocity	1.45 m/s	Air Velocity	1.45 m/s
Fiter Section - Cross Section Area	1.0657 m²		
Filter Sizes			
P.FLT M5 463x370x48 (1-2-0301-0205)	6,000 x Pcs		

Air Filter Sizes Additional Info

Note: Filter is not Eurovent certified.

Long Bag Filter

Type F7/600.Bag.Int.Sld

ePM2,5 65% (ISO16890) - EFF CLASS E — Bag[9.0]/600

Filter Energy Performance Class	E		
Winter operation		**Summer operation**	
Air Pressure Drop	118 Pa	Air Pressure Drop	118 Pa
Pressure Drop - Clean Filter	36 Pa	Pressure Drop - Clean Filter	36 Pa
Pressure Drop at 100% Dirty Filters	200 Pa	Pressure Drop at 100% Dirty Filters	200 Pa
Air Velocity	1.45 m/s	Air Velocity	1.45 m/s
Fiter Section - Cross Section Area	1.0657 m²		
Filter Sizes			
B.FLT F7 428x287x600 (1-2-0304-1013)	3,000 x Pcs		
B.FLT F7 428x428x600 (1-2-0304-1015)	3,000 x Pcs		

Air Filter Sizes Additional Info

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Technical data for item 2 **Offer number** 2/LIVE.EUR/PG/2025

Note: Filter is not Eurovent certified.

Rotary Wheel

Type RRG E-AVGV075C TOT

R2_SR_TOT

Rated voltage	230 V/1 ph/50 Hz

Winter operation		**Summer operation**	
Supply		**Supply**	
Intake air DBT / X	5.2 °C / 1.976 g/kg	Intake air DBT / X	33.7 °C / 13.456 g/kg
Discharge air DBT / X	18.1 °C / 5.134 g/kg	Discharge air DBT / X	23.6 °C / 11.908 g/kg
Air Velocity	2.34 m/s	Air Velocity	2.34 m/s
Air Press. Drop Wet / Dry	155 Pa / 164 Pa	Air Press. Drop Wet / Dry	171 Pa / 164 Pa
Air Pressure	101325 Pa	Air Pressure	101325 Pa
Air Density	1.2000 kg/m³	Air Density	1.2000 kg/m³
Air Volume Flow	5552.00 m³/h	Air Volume Flow	5552.00 m³/h
Recovery capacity Sensible / Total	24.0 kW / 38.6 kW	Recovery capacity Sensible / Total	18.8 kW / 25.8 kW
Efficiency Real Flow / Balanced Flow	77 % / 81 %	Efficiency Real Flow	74 %
		Recovery Latent Efficiency	63 %
OACF	1.036	OACF	1.031
EATR	4.367	EATR	4.061
Winter operation		**Summer operation**	
Exhaust		**Exhaust**	
Intake air DBT / X	22.0 °C / 6.000 g/kg	Intake air DBT / X	20.0 °C / 11.000 g/kg
Discharge air DBT / X	8.1 °C / 2.621 g/kg	Discharge air DBT / X	31.2 °C / 13.027 g/kg
Air Velocity	2.02 m/s	Air Velocity	2.02 m/s
Air Press. Drop Wet / Dry	143 Pa / 142 Pa	Air Press. Drop Wet / Dry	142 Pa / 142 Pa
Air Pressure	101325 Pa	Air Pressure	101325 Pa
Air Density	1.2000 kg/m³	Air Density	1.2000 kg/m³
Air Volume Flow	4788.00 m³/h	Air Volume Flow	4788.00 m³/h
Recovery Bypass	No		

Rotary Regenerator

Max Internal Leakage 3%

Recovery Additional Info

RotaryExchangers

FAN SECTION

Fan Section PLUG_DD_250_0,70_1.58_EC|IE4

EC_IE4_F_IMB14_71_1.58p_T 771.3.570 250|0.7kW|1.58x3

Qty in section x 3

Fan Set Designed for wet operating conditions

The Fan System EffectIs Taken Into Account In The Fan Performances

Fan PLUG_VS_250_AF_Px 3

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Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

Fan Static Pressure	681 Pa	Impeller efficiency: Static / Total	71 %/76 %
Dynamic pressure	50 Pa	Fan Energy Index (FEI)	2,3521
External Pressure	255 Pa	Shaft power	0.49 kW x 3
Total Pressure	731 Pa	Fan Working Revolutions	3320 1/min
Winter operation		**Summer operation**	
Air Volume Flow	5552.00 m³/h	Air Volume Flow	5552.00 m³/h

Motor EC_IE4_F_71_IMB14_1.58p_0.7_50x 3

771.3.570 EC 50Hz

		Motor Rated Revolutions	4000 1/min
Operational Voltage	230 V/1 ph	Motor Rated Power	0.70 kW x 3
El. Motor Rated Voltage	230 V/1 ph/50 Hz		

EC Motor Controller

EC Controller Settings	42 Hz		
EC Motor Drive Connecting Board	YES		
Motor Drive FLA (Full-Load Amperes)	5.9 A	Motor Drive MCA (Min. Circuit Ampacity)	7.4 A
Motor Drive MCB (Max. Circuit Breaker)	10.0 A		

FAN SECTION ADDITIONAL INFO

FAN SECTION OPTIONAL EQUIPPMENT

Connecting Point	CP Provided by others

FAN SECTION CONSUMED POWER

Winter operation		**Summer operation**	
Absorbed Power	1.71 kW	Absorbed Power	1.71 kW
EPC for clean filters	1.38 kW	EPC for clean filters	1.38 kW
SFP for clean filters	0.90 kW/m³/s	SFP for clean filters	0.90 kW/m³/s

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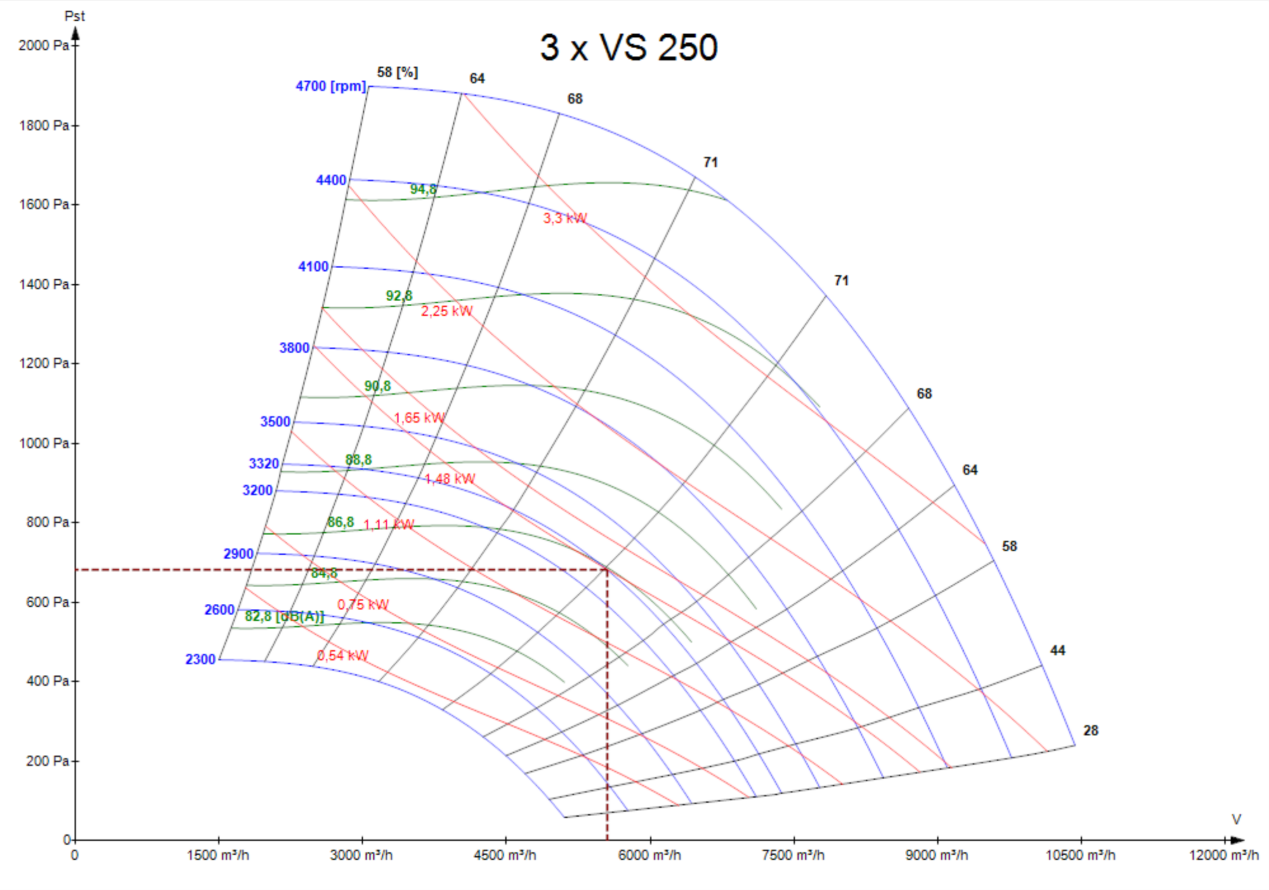
Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

FAN PERFORMANCE GRAPH



Dual Temperature DX Coil w/ Droplet Eliminator

Type DXH VVS075c 3R-1 TD SH.Cu.St.Std	**Number of rows** 3	**Sections** 1	**Connection Supply/Return:** Ø22/Ø28

	5,33 [dm^3]		VVS075c 3 1
Medium	R410A	Maximum working pressure	38 bar
Intake air DBT / X	23.6 °C / 11.908 g/kg	Discharge air DBT / X	15.2 °C / 9.443 g/kg
Air Velocity	1.87 m/s	Air Press. Drop Wet / Dry	43 Pa / 25 Pa
Air Pressure	101325 Pa	Air Density	1.2000 kg/m³
Air Volume Flow	5552.00 m³/h		
Cooling capacity: Sensible / Total	16.0 kW/27.5 kW	Evaporation temperature	6.0 °C
Medium flow rate	0.46686 m³/h	Medium pressure drop	13.31 kPa

Heating mode

	5,33 [dm^3]	VVS075c 3 1

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Technical data for item 2

Offer number 2/LIVE.EUR/PG/2025

Medium	R410A	Maximum working pressure	38 bar
Intake air DBT / X	18.1 °C / 5.134 g/kg	Discharge air DBT / X	22.9 °C / 5.134 g/kg
Air Velocity	1.90 m/s	Air Press. Drop Wet	30 Pa
Air Pressure	101325 Pa	Air Density	1.2000 kg/m³
Air Volume Flow	5552.00 m³/h		
Heating capacity	9.1 kW	Condensation temperature	45.0 °C
Medium flow rate	0.22209 m³/h	Medium pressure drop	0.93 kPa

Empty section

Type EMP.SEC E-AVGV075C Medium

Winter operation		**Summer operation**	
Air velocity	1.45 m/s	Air velocity	1.45 m/s

Resp_EmptySection_Info_Name

EmptySections

Acoustic data

Acoustic power level [dB]	Frequency	125 [Hz]	250 [Hz]	500 [Hz]	1000 [Hz]	2000 [Hz]	4000 [Hz]	8000 [Hz]	Lw [dB]
Inlet	[dB]	65.5	70.4	69.9	65.0	60.1	50.8	46.3	74.6
Outlet	[dB]	68.3	74.2	73.7	69.8	61.9	46.6	41.1	78.3
Environment	[dB]	57.3	61.2	53.7	44.8	35.9	28.6	17.1	63.3

Acoustic pressure level at 1 meter distance [dB]	Frequency	125 [Hz]	250 [Hz]	500 [Hz]	1000 [Hz]	2000 [Hz]	4000 [Hz]	8000 [Hz]	Lp [dB]
	[dB]	46.3	50.2	42.7	33.8	24.9	17.6	6.1	52.3

Internal Pressure Drop

	Summer operation	Winter operation
Internal Pressure Drop	**425 Pa**	**425 Pa**
Air Inlet	0 Pa	0 Pa
Electric Heater	8 Pa	8 Pa
Air Filter (short)	91 Pa	91 Pa
Air Filter (long)	118 Pa	118 Pa
RHE	164 Pa	164 Pa
Fan section	0 Pa	0 Pa
DX Cooler	43 Pa	43 Pa
Empty Section	1 Pa	1 Pa
Air Outlet	0 Pa	0 Pa

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Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

Exhaust airflow 3

Panel Filter

Type M5/50.EU5MPleat.Int.Sld

ePM10 40% - ISO 16890 - EFF CLASS E — Flat Mini-Pleat Filter[26.0]

Filter Energy Performance Class	E

Winter operation		**Summer operation**	
Air Pressure Drop	87 Pa	Air Pressure Drop	87 Pa
Pressure Drop - Clean Filter	24 Pa	Pressure Drop - Clean Filter	24 Pa
Pressure Drop at 100% Dirty Filters	150 Pa	Pressure Drop at 100% Dirty Filters	150 Pa
Air Velocity	1.25 m/s	Air Velocity	1.25 m/s
Fiter Section - Cross Section Area	1.0657 m²		

Filter Sizes

P.FLT M5 463x370x48 (1-2-0301-0205)	6,000 x Pcs

Air Filter Sizes Additional Info

Note: Filter is not Eurovent certified.

Short Bag Filter

Type F7/300.Bag.Int.Sld

ePM2,5 65% (ISO16890) - EFF CLASS E — Bag[8.0]/300

Filter Energy Performance Class	E

Winter operation		**Summer operation**	
Air Pressure Drop	116 Pa	Air Pressure Drop	116 Pa
Pressure Drop - Clean Filter	32 Pa	Pressure Drop - Clean Filter	32 Pa
Pressure Drop at 100% Dirty Filters	200 Pa	Pressure Drop at 100% Dirty Filters	200 Pa
Air Velocity	1.25 m/s	Air Velocity	1.25 m/s
Fiter Section - Cross Section Area	1.0657 m²		

Filter Sizes

B.FLT F7 428x287x300 (1-2-0304-1007)	3,000 x Pcs
B.FLT F7 428x428x300 (1-2-0304-1009)	3,000 x Pcs

Air Filter Sizes Additional Info

Note: Filter is not Eurovent certified.

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Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

FAN SECTION

Fan Section PLUG_DD_250_0,70_1.58_EC|IE4

EC_IE4_F_IMB14_71_1.58p_T	771.3.570	250|0.7kW|1.58x3	
		Qty in section	x 3

Fan Set Designed for wet operating conditions

The Fan System EffectIs Taken Into Account In The Fan Performances

Fan PLUG_VS_250_AF_Px 3

Fan Static Pressure	641 Pa	Impeller efficiency: Static / Total	71 %/76 %
Dynamic pressure	37 Pa	Fan Energy Index (FEI)	2,7010
External Pressure	295 Pa	Shaft power	0.40 kW x 3
Total Pressure	678 Pa	Fan Working Revolutions	3070 1/min
Winter operation		**Summer operation**	
Air Volume Flow	4788.00 m³/h	Air Volume Flow	4788.00 m³/h

Motor EC_IE4_F_71_IMB14_1.58p_0.7_50x 3

771.3.570	EC	50Hz	
		Motor Rated Revolutions	4000 1/min
Operational Voltage	230 V/1 ph	Motor Rated Power	0.70 kW x 3
El. Motor Rated Voltage	230 V/1 ph/50 Hz		

EC Motor Controller

EC Controller Settings	38 Hz		
EC Motor Drive Connecting Board	YES		
Motor Drive FLA (Full-Load Amperes)	5.9 A	Motor Drive MCA (Min. Circuit Ampacity)	7.4 A
Motor Drive MCB (Max. Circuit Breaker)	10.0 A		

FAN SECTION ADDITIONAL INFO

FAN SECTION OPTIONAL EQUIPPMENT

Connecting Point	CP Provided by others

FAN SECTION CONSUMED POWER

Winter operation		**Summer operation**	
Absorbed Power	1.38 kW	Absorbed Power	1.38 kW
EPC for clean filters	1.07 kW	EPC for clean filters	1.07 kW
SFP for clean filters	0.81 kW/m³/s	SFP for clean filters	0.81 kW/m³/s

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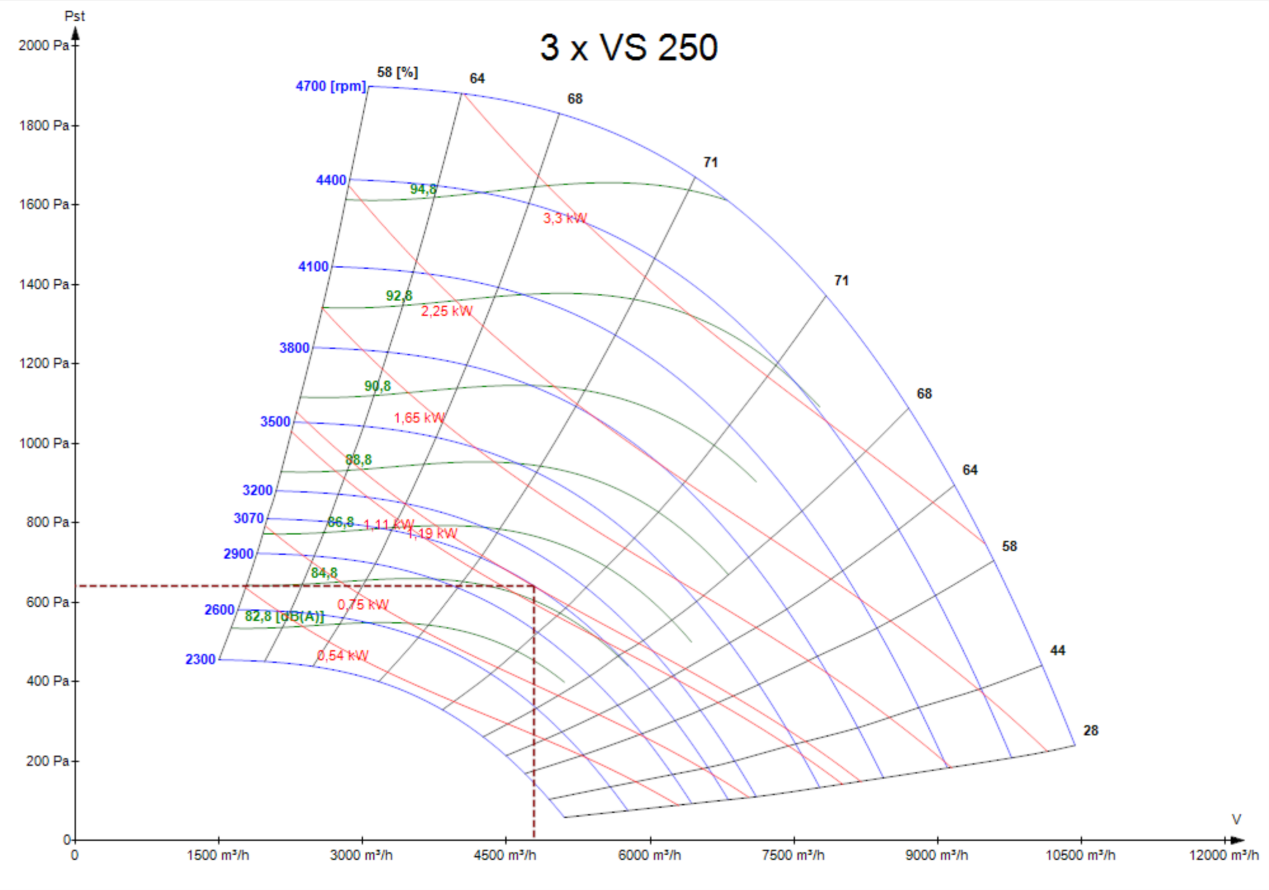
FAN PERFORMANCE GRAPH



Acoustic data

Acoustic power level [dB]	Frequency	125 [Hz]	250 [Hz]	500 [Hz]	1000 [Hz]	2000 [Hz]	4000 [Hz]	8000 [Hz]	Lw [dB]
Inlet	[dB]	65.2	70.0	69.6	65.7	60.8	53.5	49.0	74.4
Outlet	[dB]	71.0	76.8	77.4	74.5	71.6	67.3	63.8	82.2
Environment	[dB]	56.0	59.8	52.4	43.5	34.6	27.3	15.8	61.9

Acoustic pressure level at 1 meter distance [dB]	Frequency	125 [Hz]	250 [Hz]	500 [Hz]	1000 [Hz]	2000 [Hz]	4000 [Hz]	8000 [Hz]	Lp [dB]
	[dB]	45.0	48.8	41.4	32.5	23.6	16.3	4.8	50.9

Internal Pressure Drop

	Summer operation	Winter operation
Internal Pressure Drop	**345 Pa**	**345 Pa**
Air Inlet	0 Pa	0 Pa
Air Filter (short)	87 Pa	87 Pa
Air Filter (medium)	116 Pa	116 Pa
RHE	142 Pa	142 Pa
Fan section	0 Pa	0 Pa
Air Outlet	0 Pa	0 Pa

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Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

AHU Opening Sizes & Unit Accessories

Supply **Exhaust**

Controls Selection Mode: Functional set

AHU Opening Sizes	Supply	Exhaust
Air Inlet	Front 1380x735	Front 1380x735
Air Outlet	Front 1380x735	Front 1380x735
AirDamper	Supply	Exhaust
Air Inlet	Provided	Not Provided
Air Outlet	Not Provided	Provided
Flexible Connection	Supply	Exhaust
Air Inlet	Provided	Provided
Air Outlet	Provided	Provided

Other Accessories

Roof	Roof	1 Accessories Quantity
Air Filter Indicator	AIR.FLTR.IND_1	4 Accessories Quantity

Control application

Functional Code	AR|0|0|2|3|0|0|0|6|3|0|1|0|0|0|1
APP Code	uPC3
Main Temp. Sensor	Duct Supply

Human Machine Interface		**Options**	
		Differential Pressure Transducer	CAV
HMI Basic (User)	Yes		
Control Box	Yes		
Control Box location	Back side	Resp_Controls_SafetySwitch_Name	Yes

Air damper actuators

Controls	Code	Set
Air Damper Actuator ON-OFF 10Nm	ADMP.ACT.SET ON-OFF 10Nm	2

Temperature sensor

Controls	Code	Set
Outdoor temperature sensor NTC 10k	Temp. Sensor NTC10k (Outdoor)	3
Duct temperature sensor NTC 10k	Temp. Sensor NTC10k (Duct)	2

Transducers and Switches

Controls	Code	Set
Differential Pressure Transducer CAV	PRSS.TRDC_CAV	1

Remarks

NOTES ON CONTROLS:

• Control system included.

• The unit is factory wired (power and controls) according to the product standard.

• Control system is based on uPC3 controller.

• The controller without GSM communication.

AHU Connection Box

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Technical data for item 2 **Offer number** **2/LIVE.EUR/PG/2025**

AHU Connection Box

Rated Power	4.20 kW	Full Load Amps	22.0 A
Power Connection	380V-415V 3N~ (3P+N+E)	Power Cord	5 x 4,00 mm²

Electric Heaters Connection

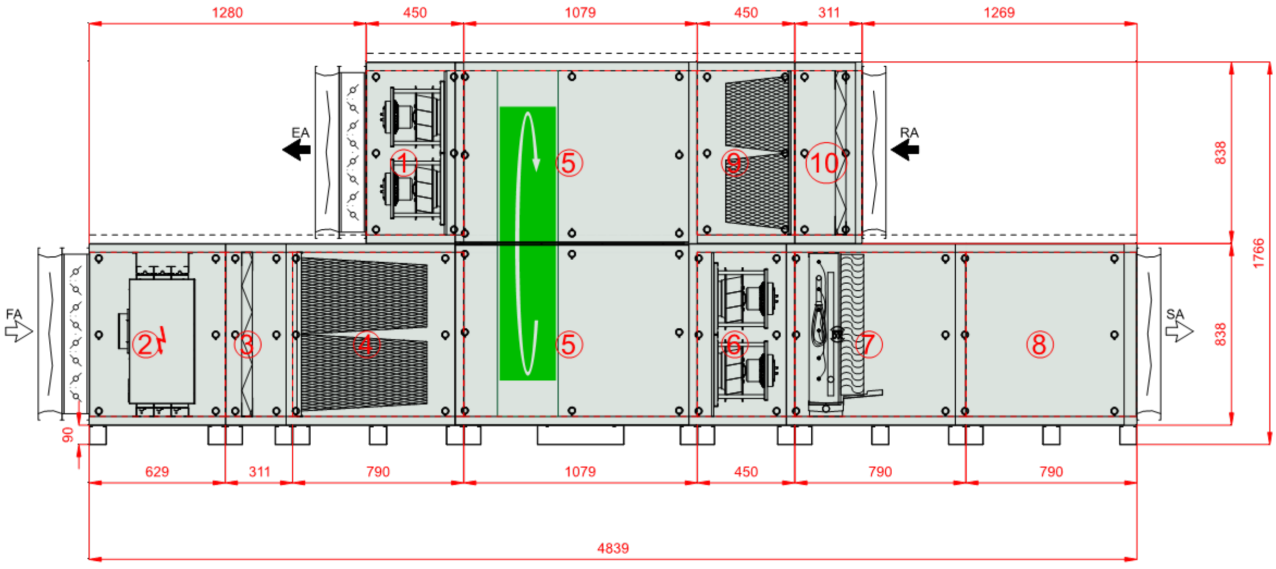
1 HP

Heaters		**Controls**	
Rated Power	30.00 kW		
Power Connection	400V+PE	Power Connection	230V+N+PE
Full Load Amps	52.0 A	Full Load Amps	0.2 A
MCA	65.0 A	Power Cord	3 x 0,75 mm²
Circuit Breaker	80.0 A		
Power Cord	4 x 16,00 mm²		

Section splits

Transport Sections	Mass [Kg]	LENGTH [mm]	WIDTH [mm]	HEIGHT [mm]
1 (V)	81	450	1486	838
2 (H)	86	629	1486	928
3 (F)	38	311	1486	928
4 (F)	73	790	1486	928
5 (R_R)	293	1079	1486	1766
6 (V)	62	450	1486	928
7 (C)	102	790	1486	928
8 (E)	65	790	1486	928
9 (F)	52	450	1486	838
10 (F)	43	311	1486	838

Transport Sections Dims



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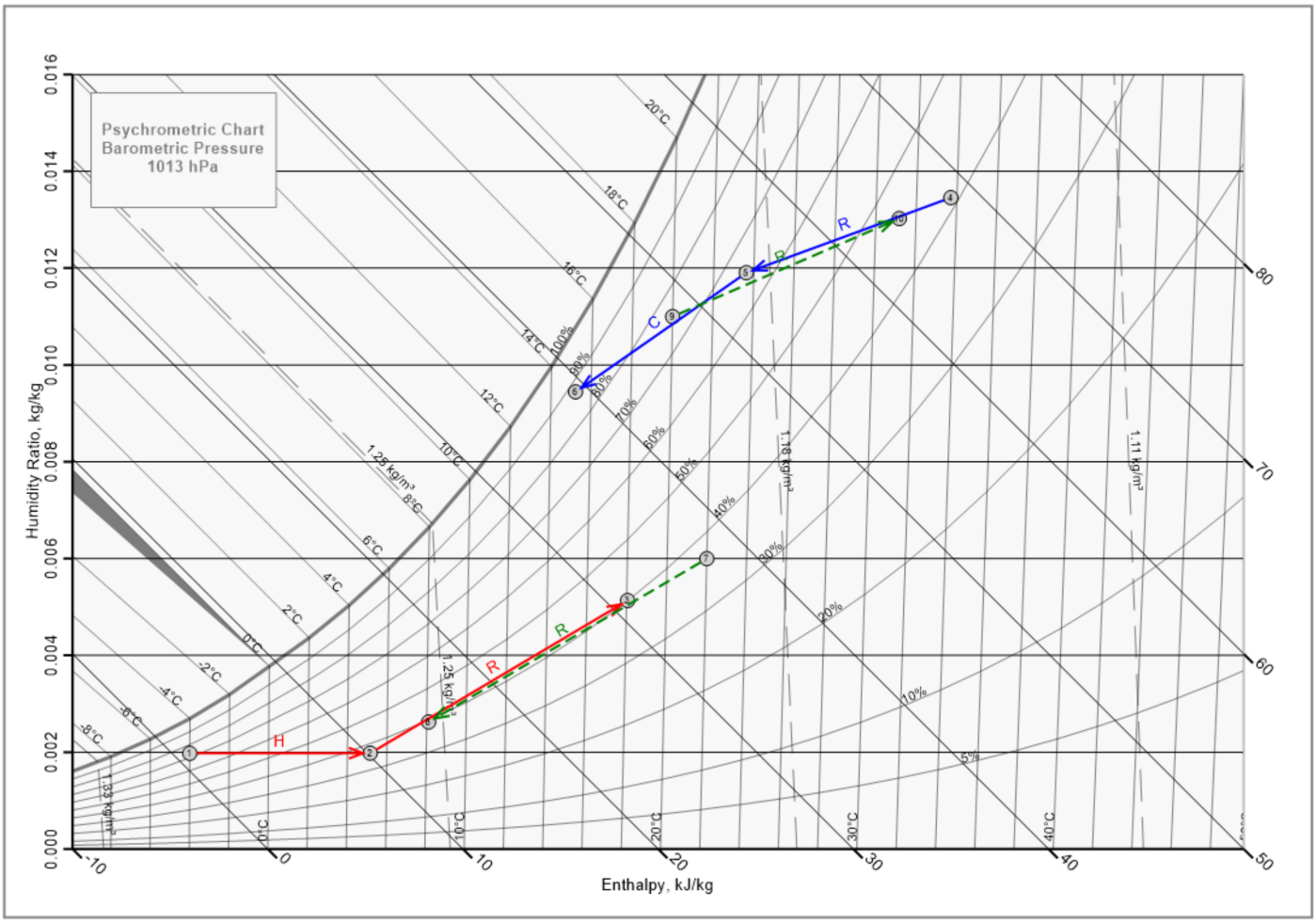
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